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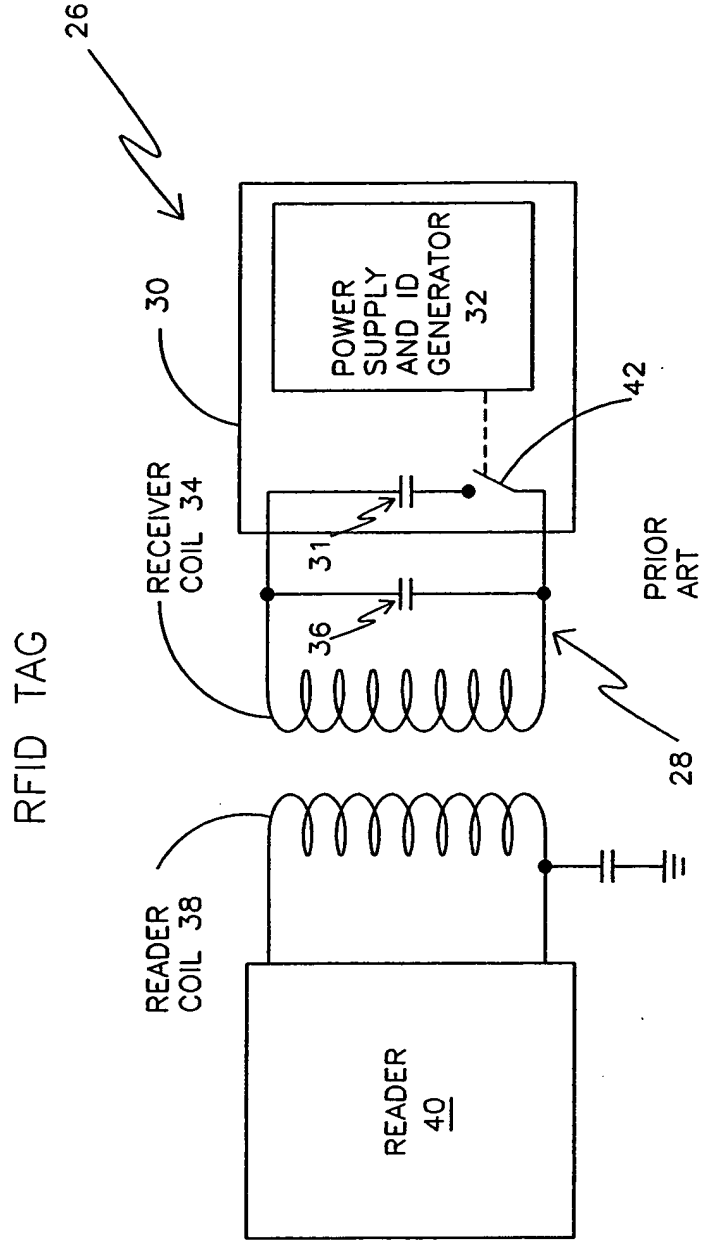


FIG. 1

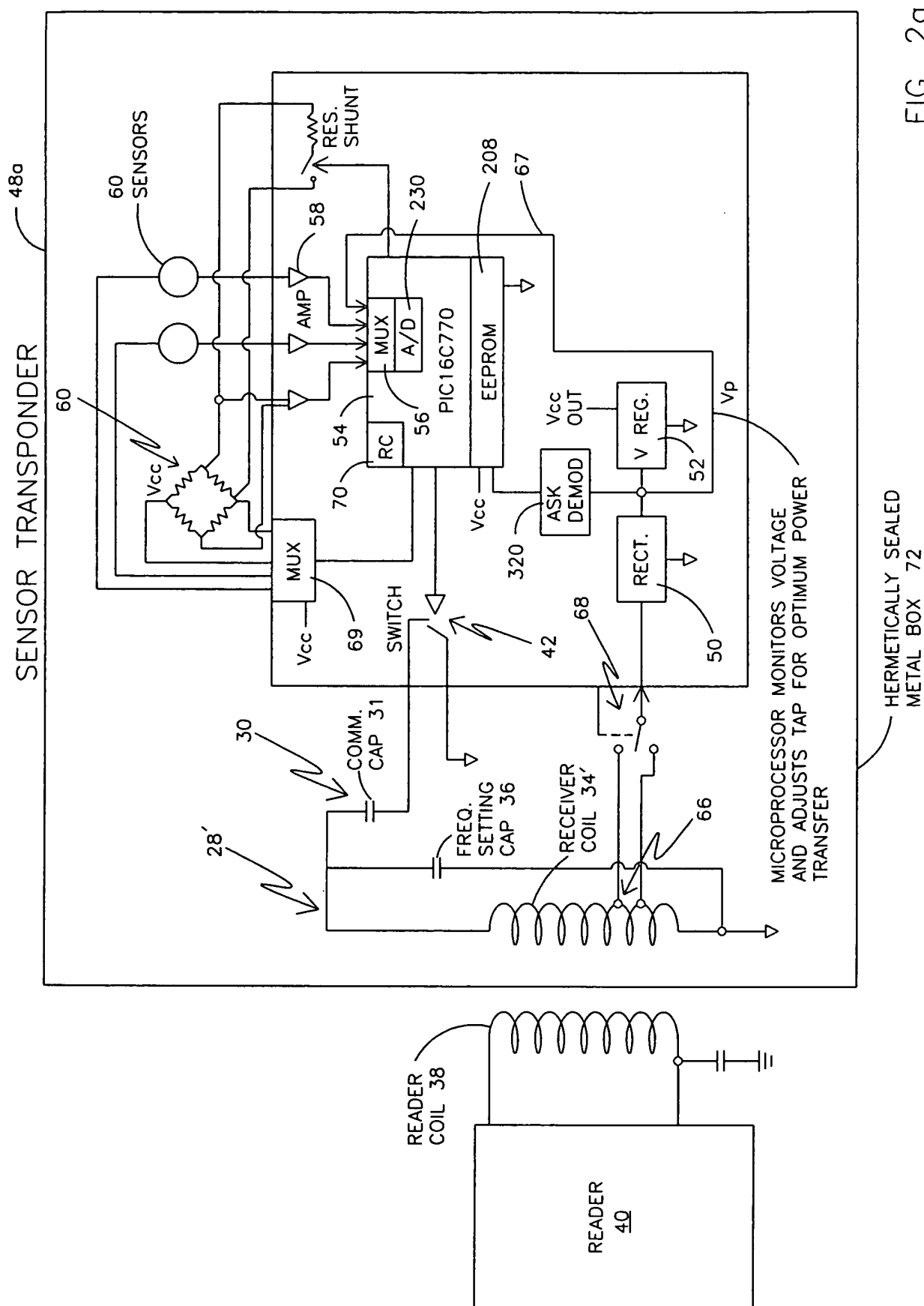


FIG. 2a

SENSOR TRANSPONDER WITH TRANSMITTER 48b

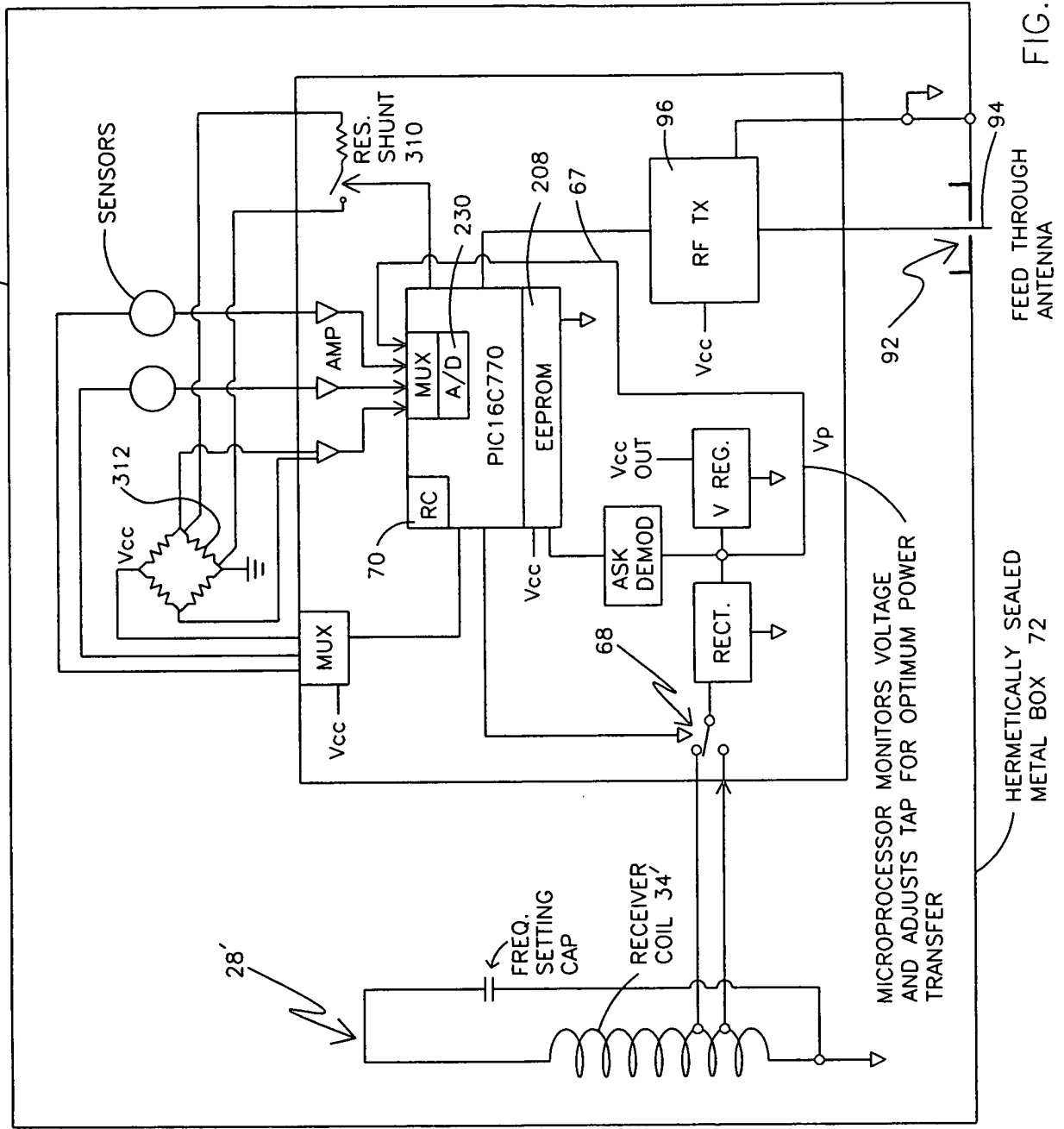
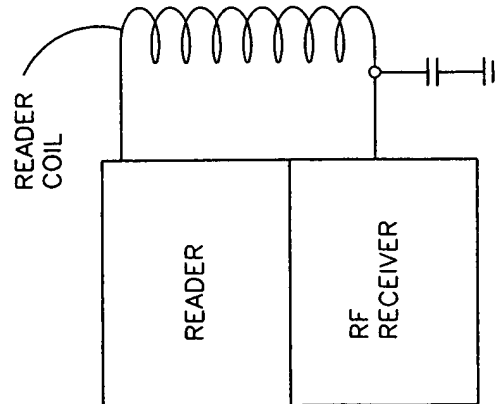


FIG. 2b



SENSOR TRANSPONDER WITH ENERGY STORAGE

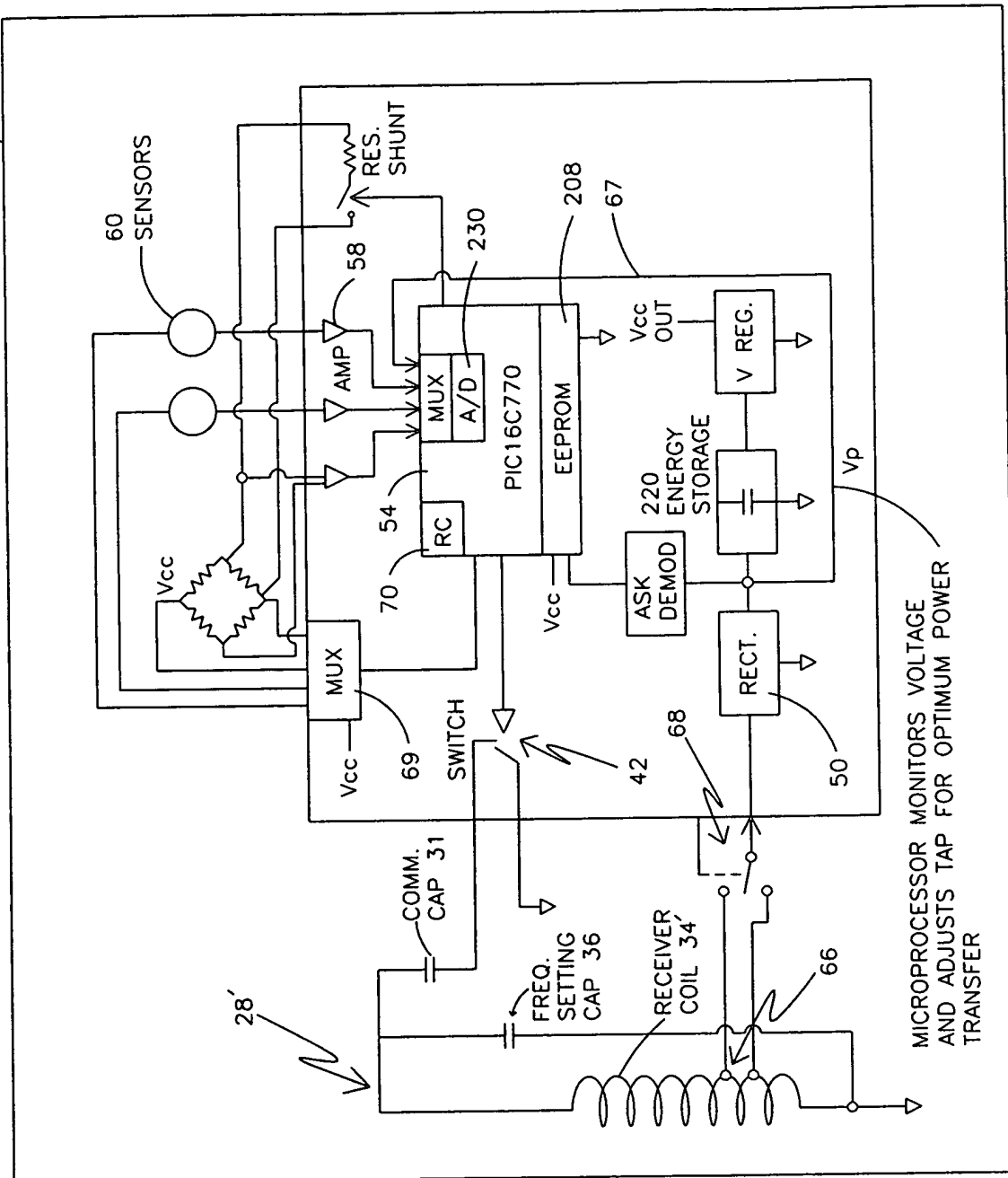
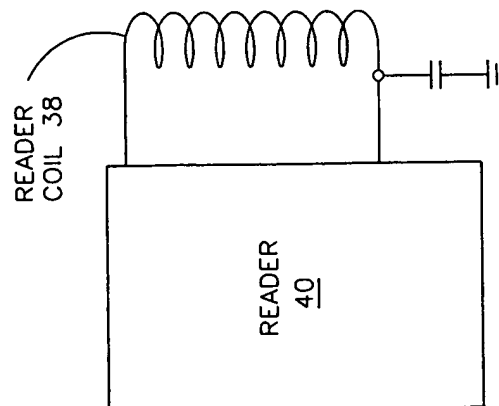


FIG. 2c



CAPACITIVE DIVIDER

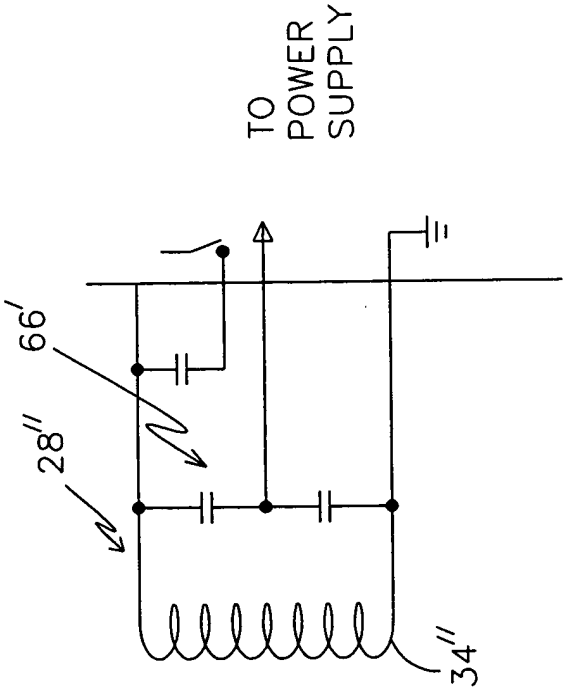


FIG. 2d

DVRT TRANSPONDER WITH RATIOMETRIC SIGNAL CONDITIONING

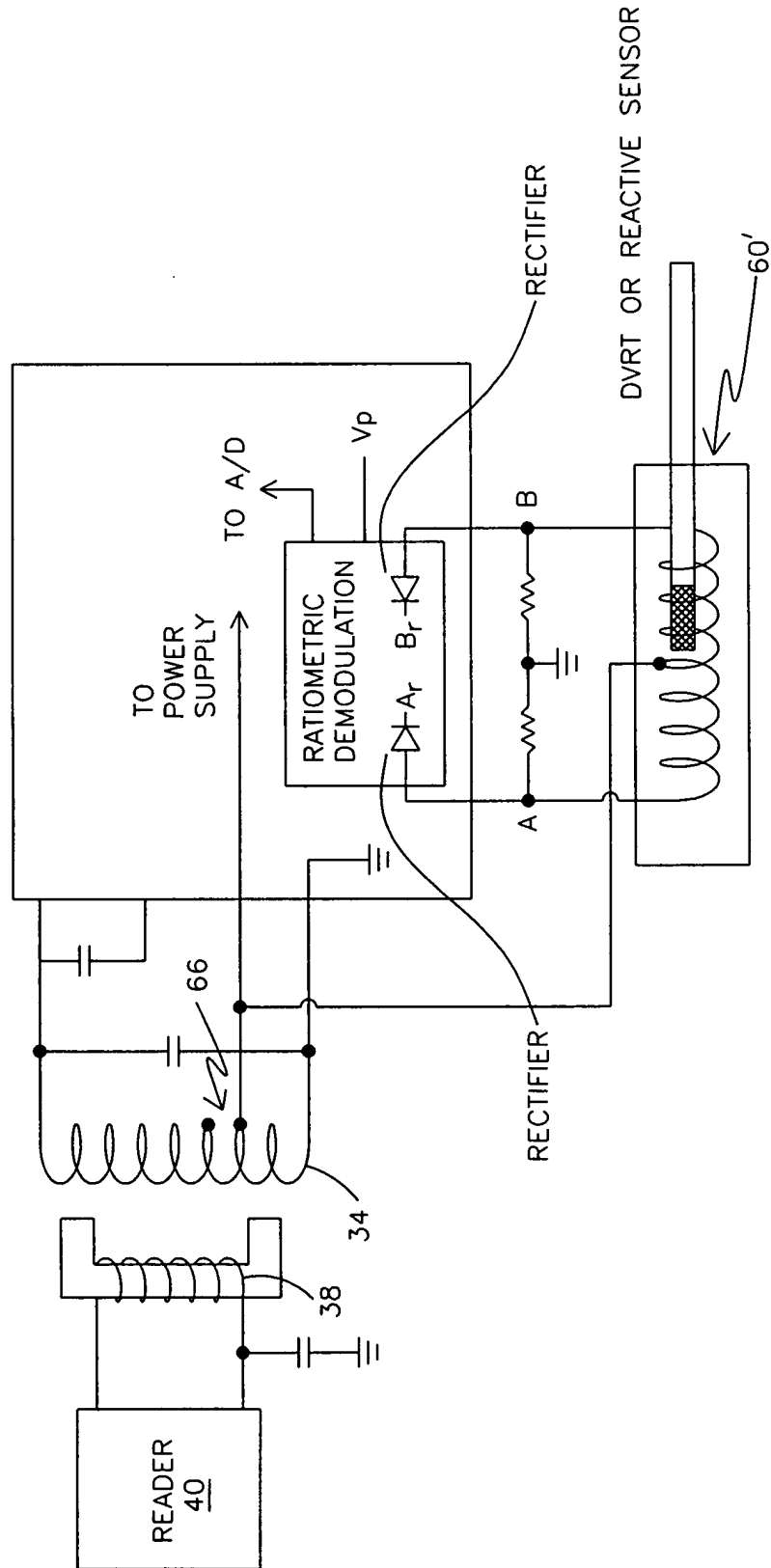


FIG. 3

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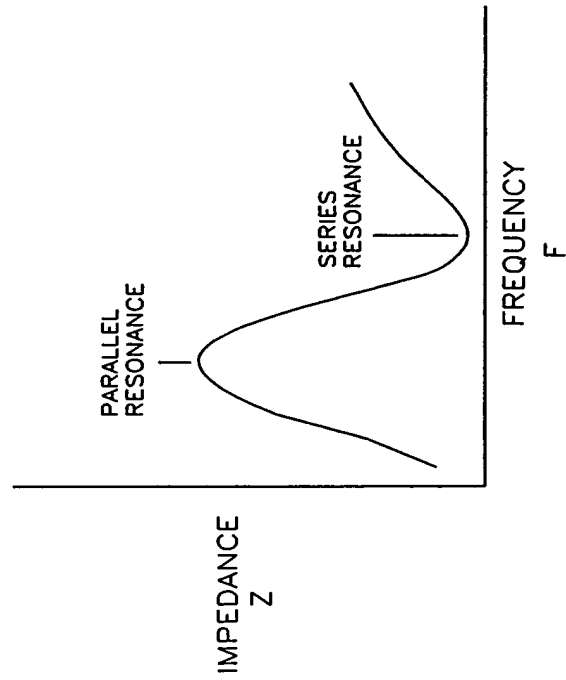


FIG. 4

EFFECT OF REACTANCE SWITCHING
ON IMPEDANCE OF RESONANT
TANK CIRCUIT WITH HIGH-Q

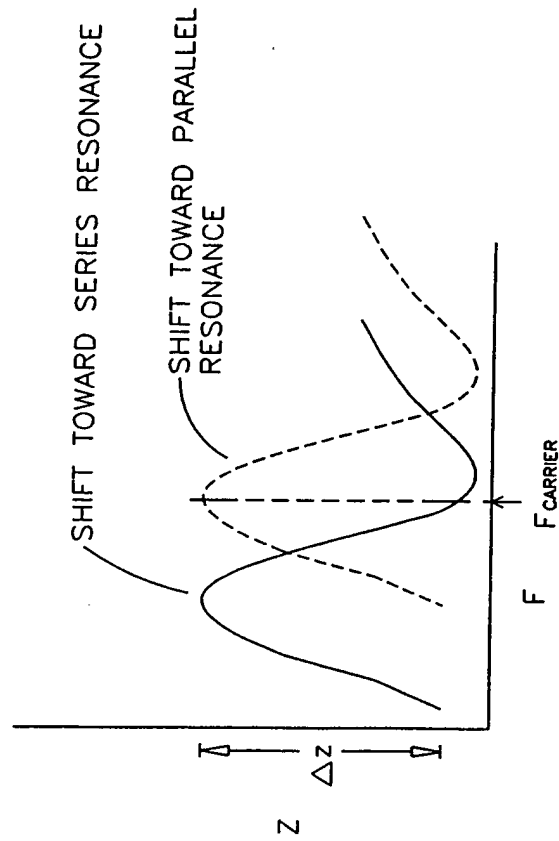


FIG. 5

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EFFECT OF REACTANCE SWITCHING
ON IMPEDANCE OF RESONANT
TANK CIRCUIT WITH LOW-Q

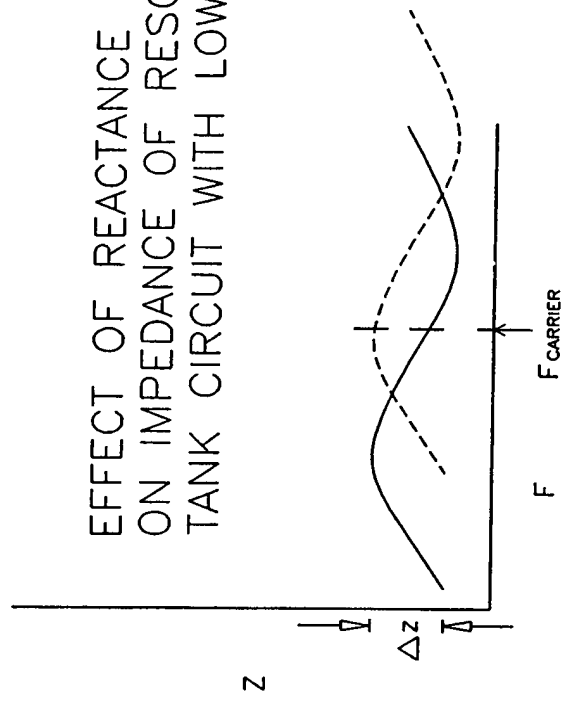


FIG. 6

JET ENGINE APPLICATION

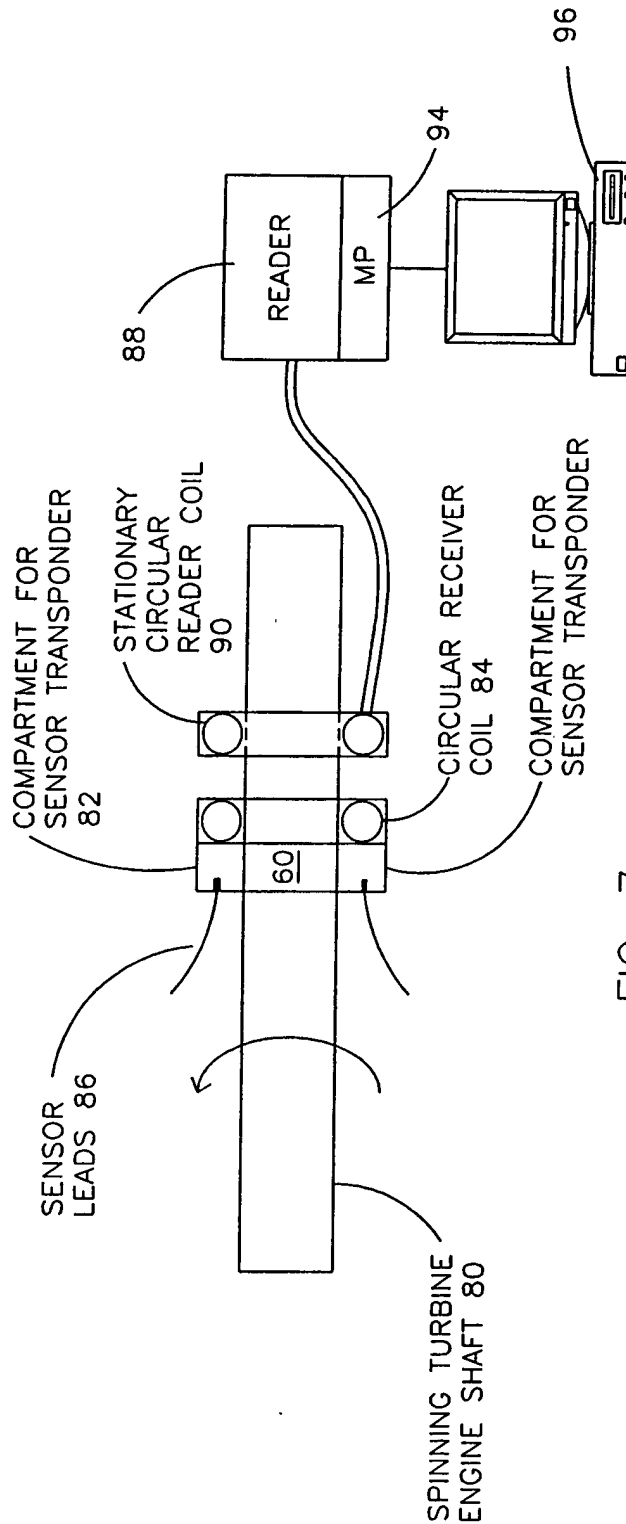


FIG. 7

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MULTIPLE ADDRESSABLE TRANSPONDERS

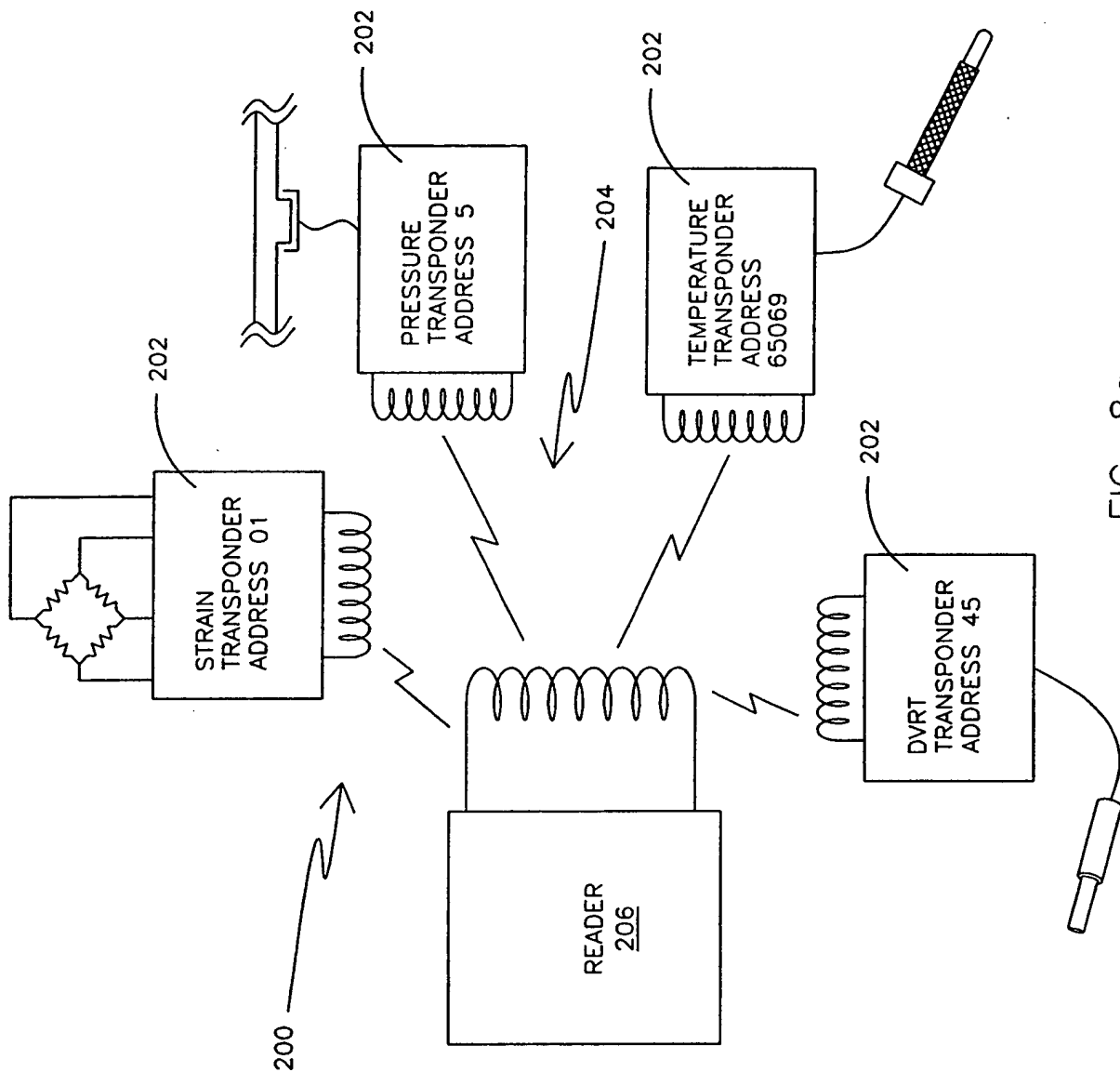


FIG. 8a

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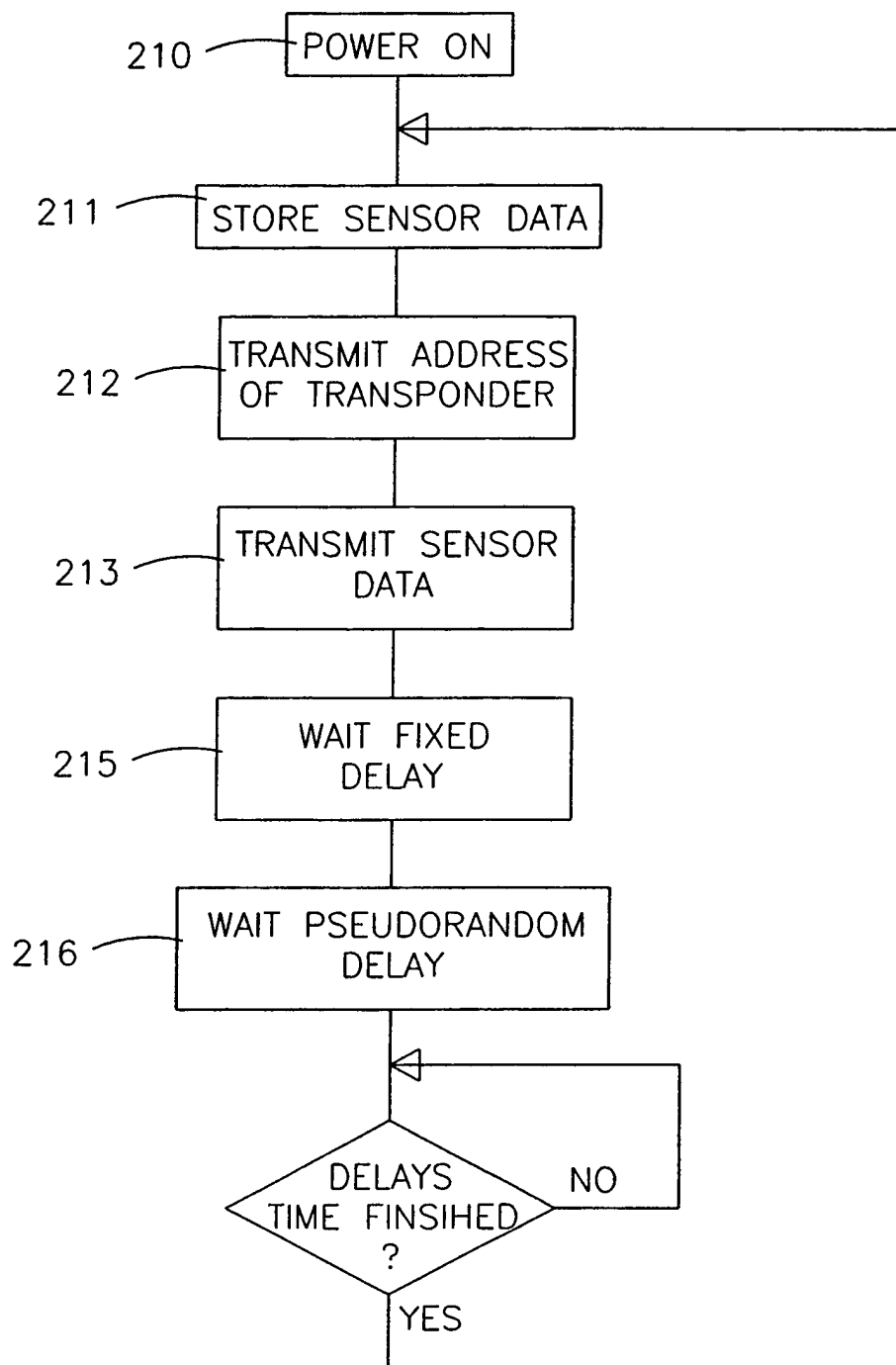


FIG. 8b

MULTIPLE ADDRESSABLE TRANSPONDERS ON A SINGLE RECEIVER COIL

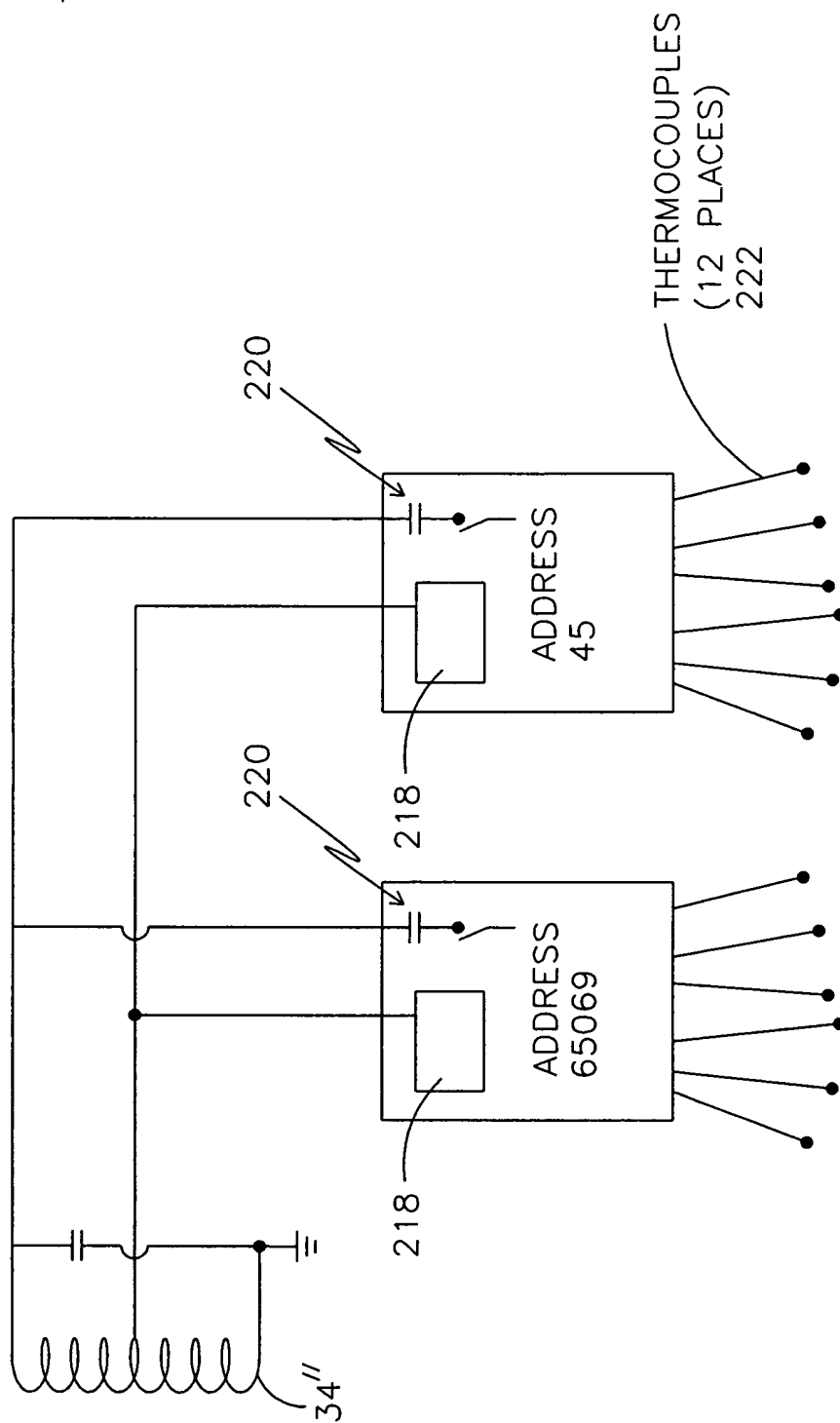
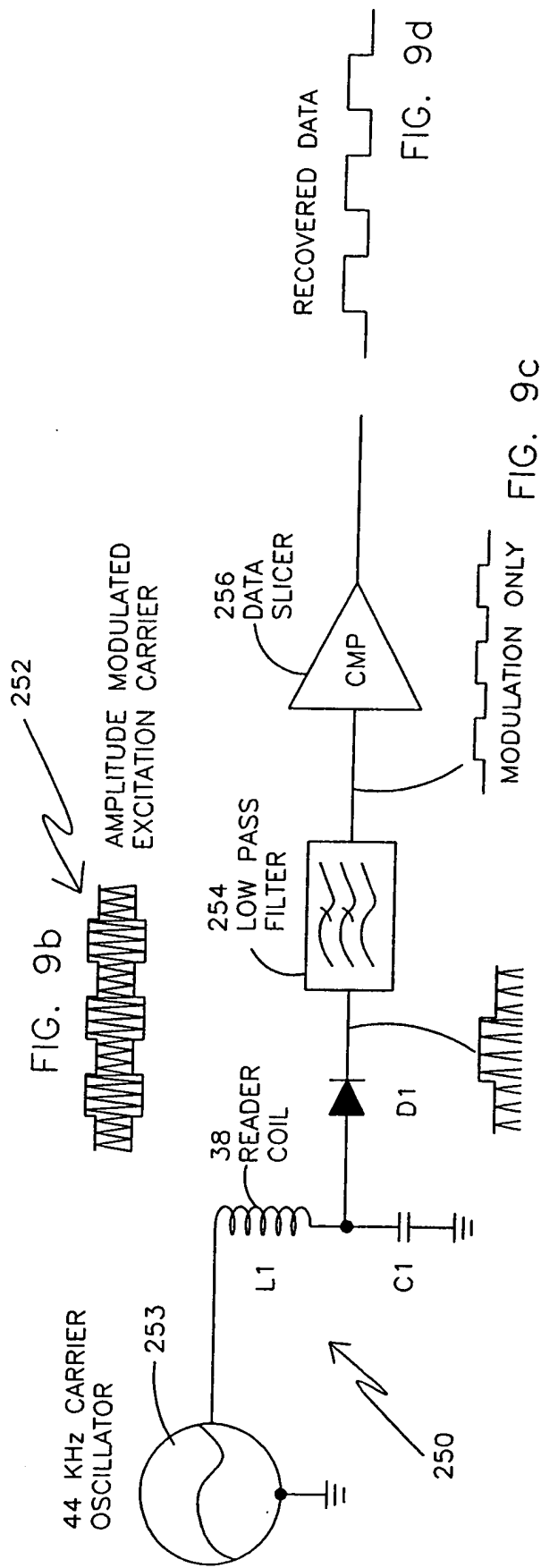


FIG. 8c

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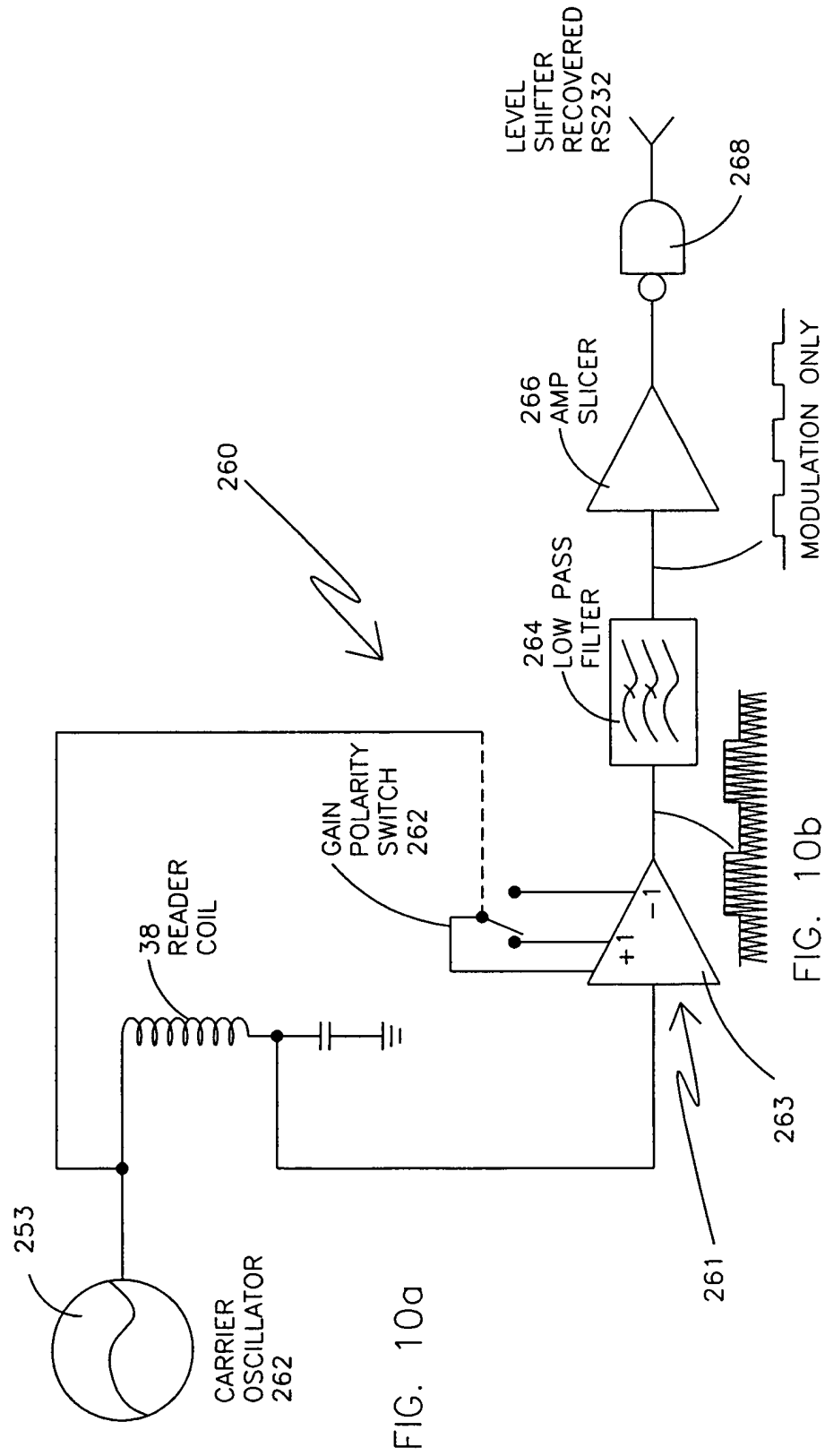
ENVELOPE DEMODULATION



PRIOR ART

FIG. 9a

SYNCHRONOUS AM DEMODULATION READER



IMPEDANCE BRIDGE DEMODULATION

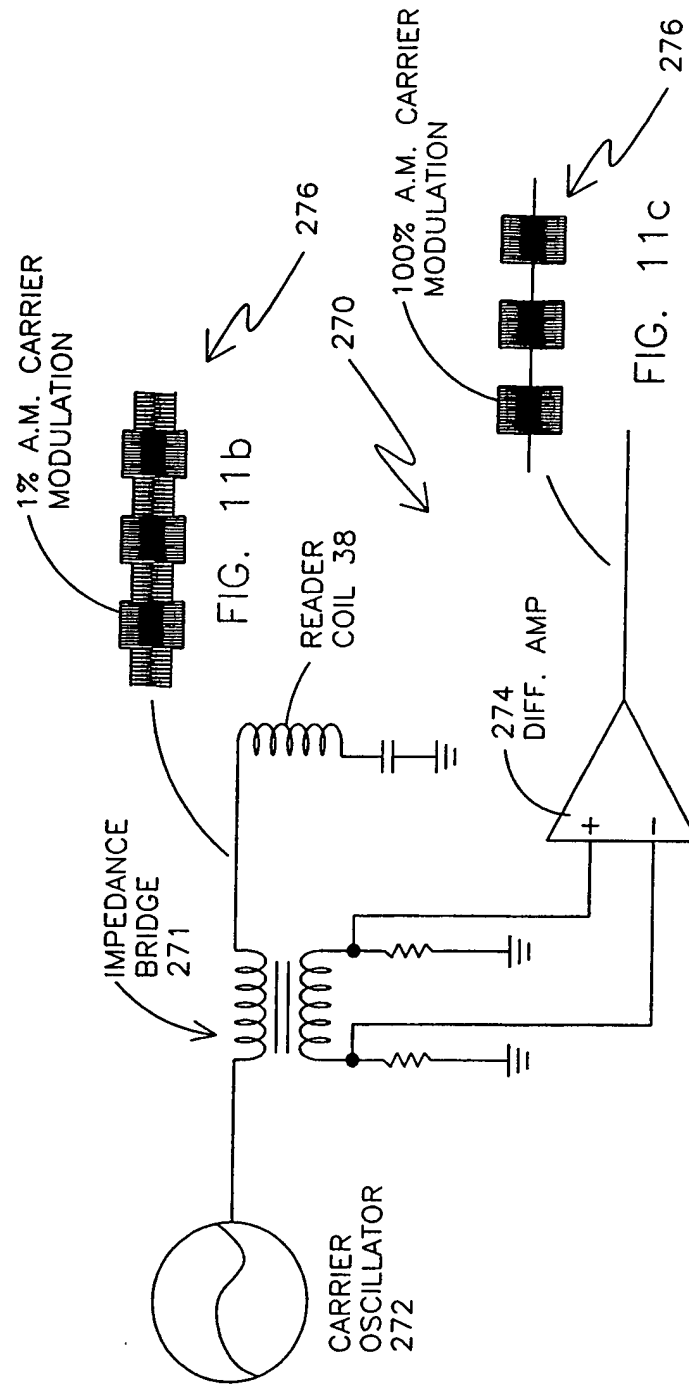


FIG. 11a

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SYNCHRONOUS AM DEMODULATION READER USING AD698

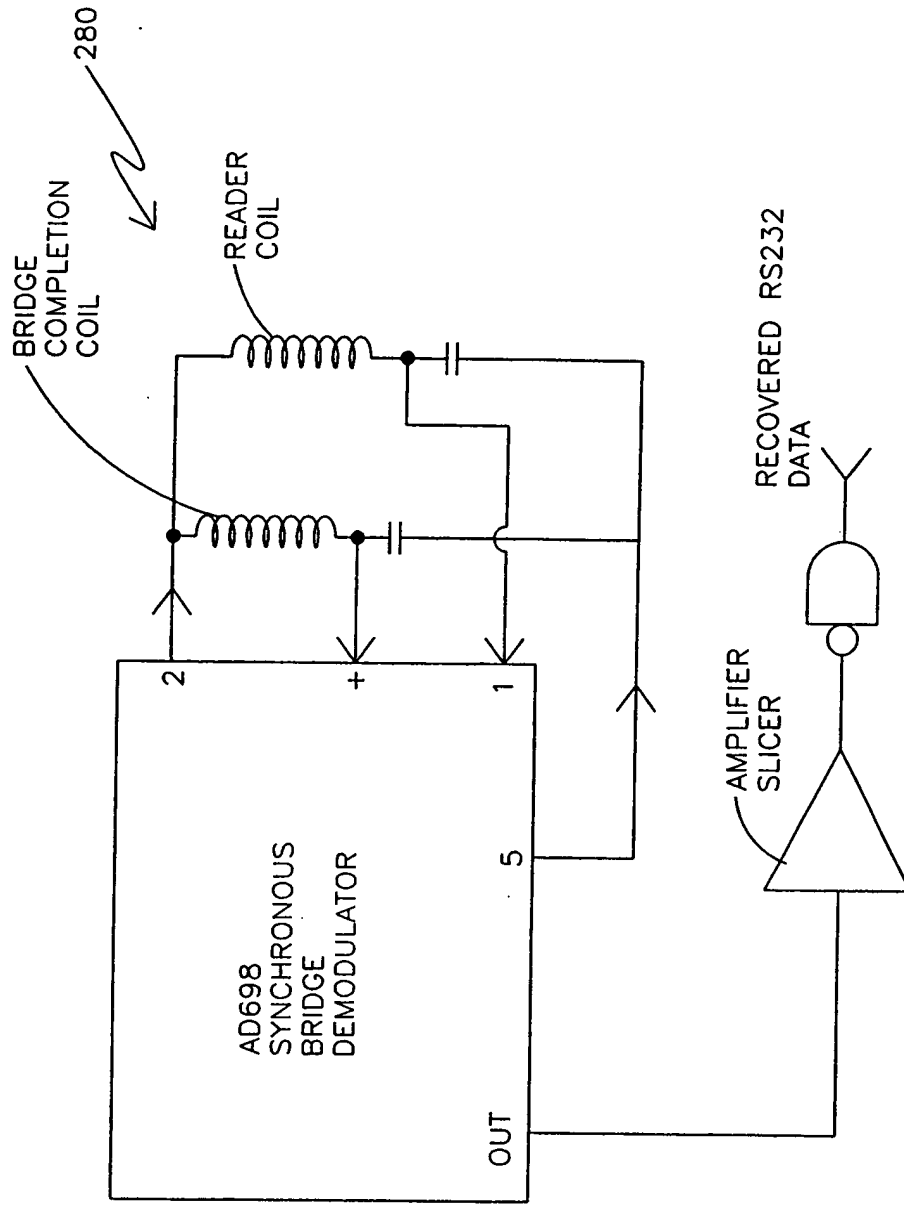


FIG. 12

PHASE DETECTION DEMODULATION

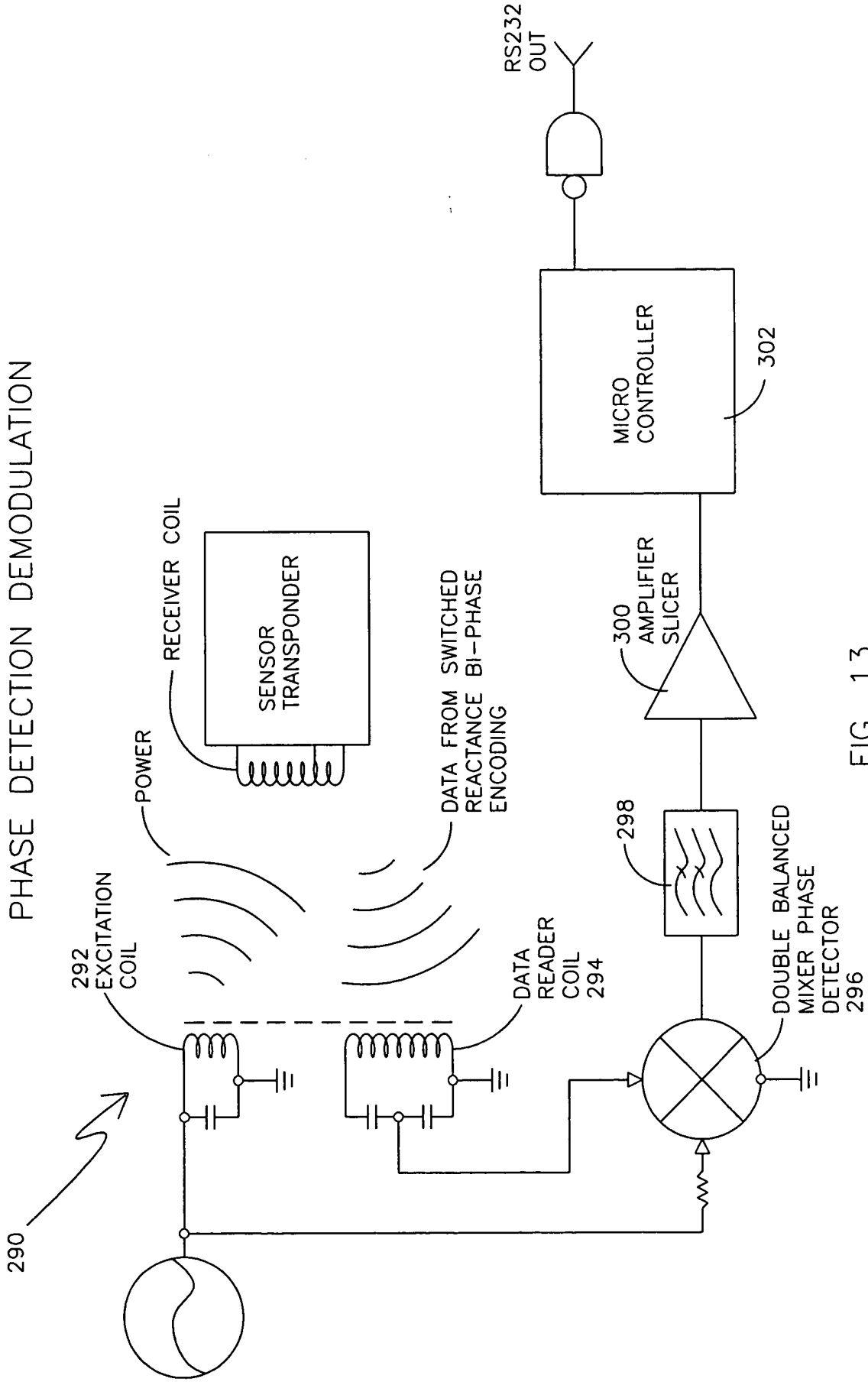


FIG. 13

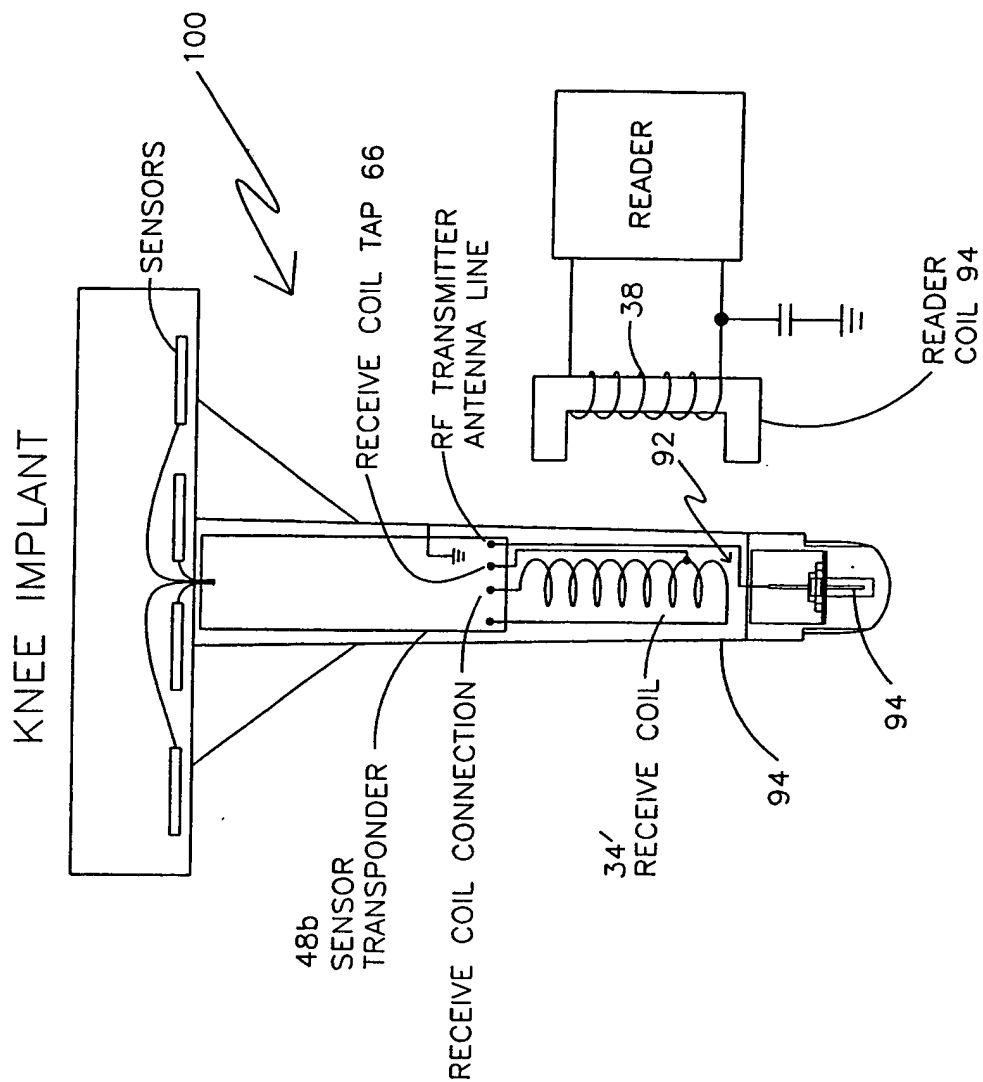


FIG. 14

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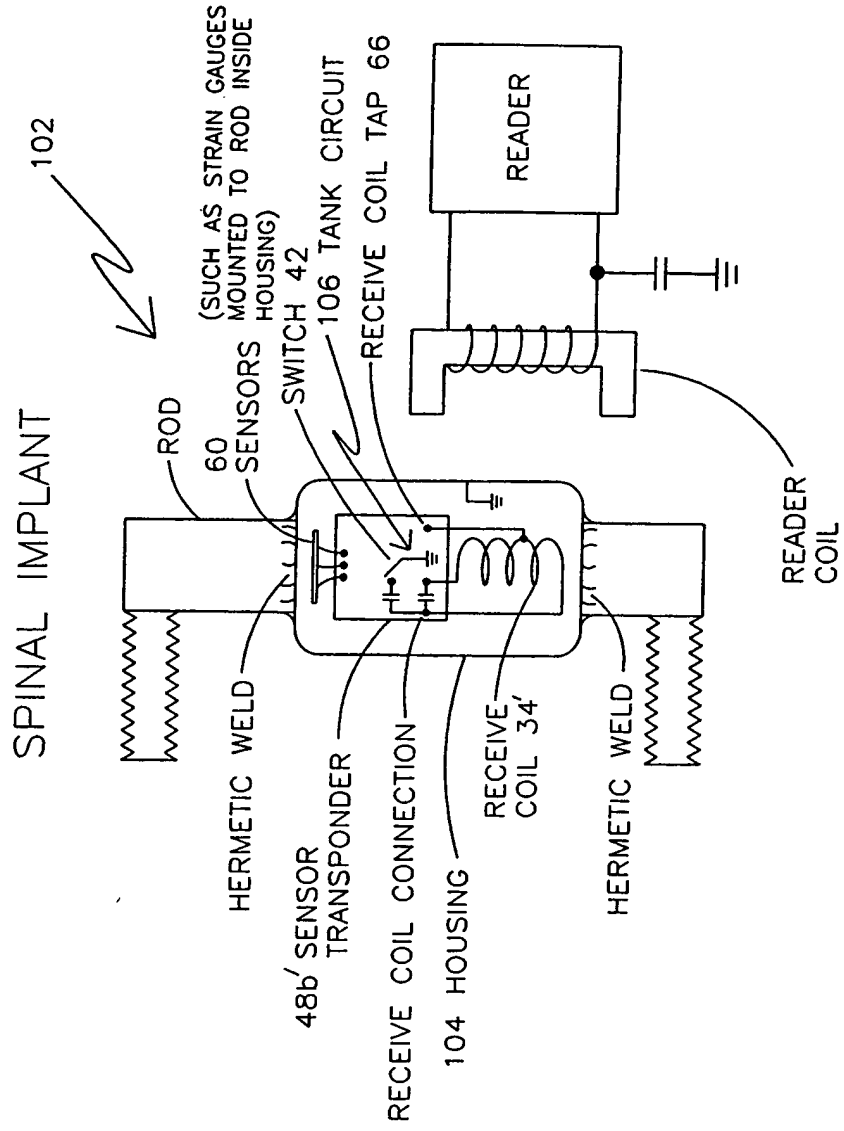


FIG. 15

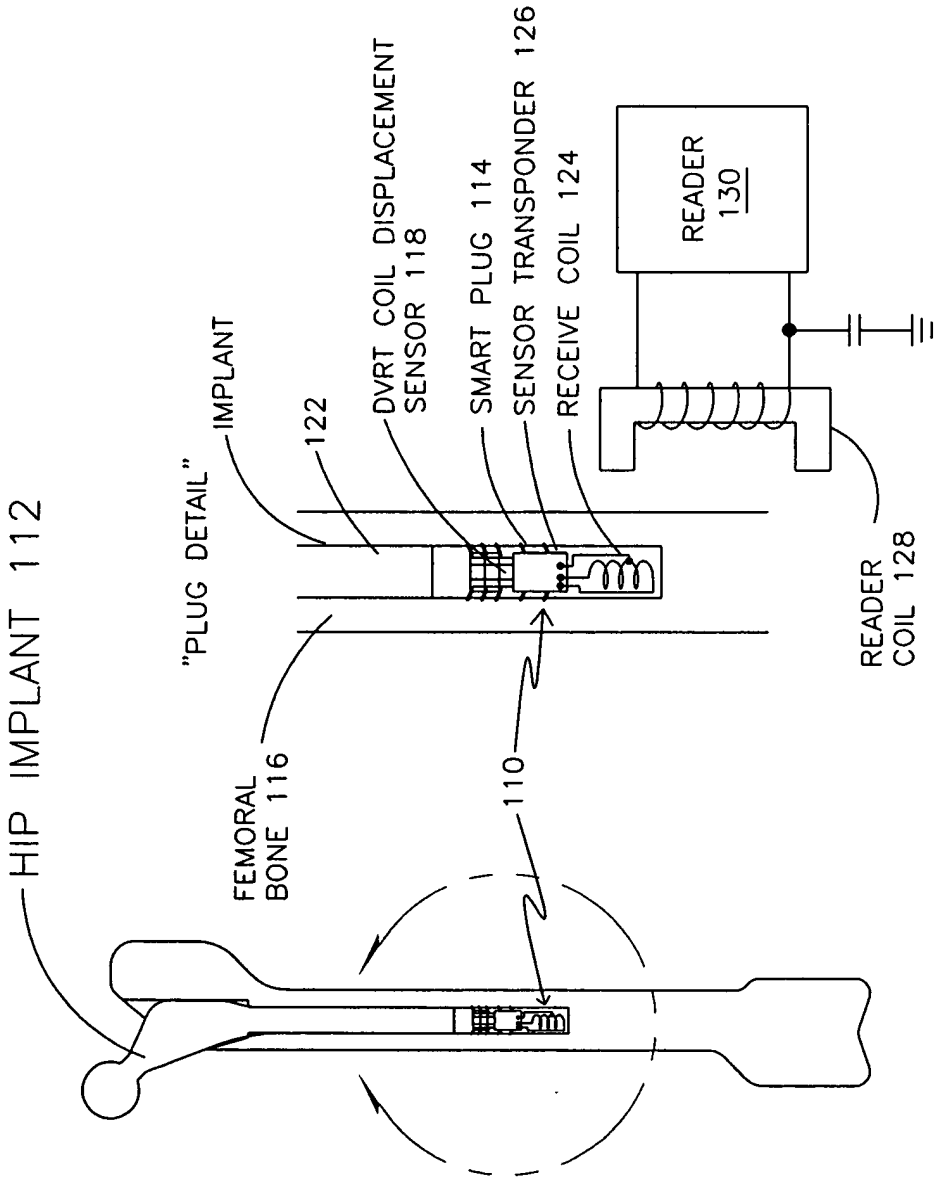


FIG. 16a

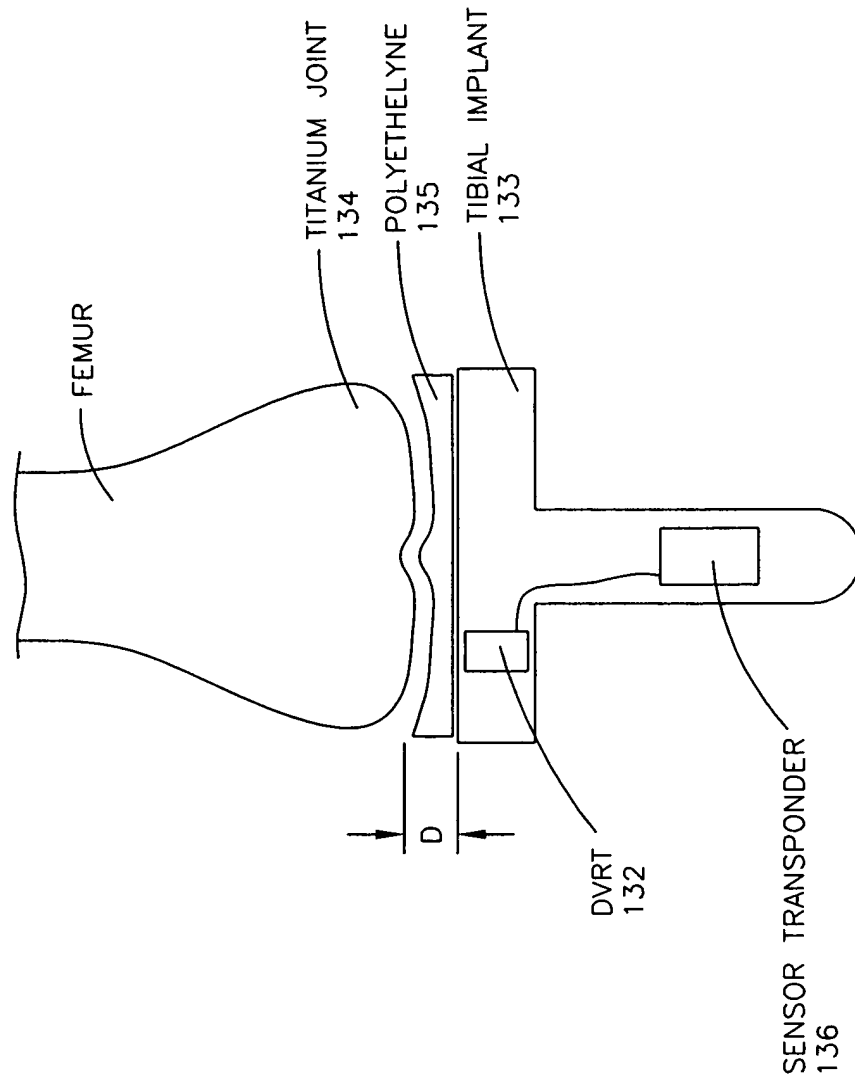


FIG. 16b

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/SPRING ELEMENT

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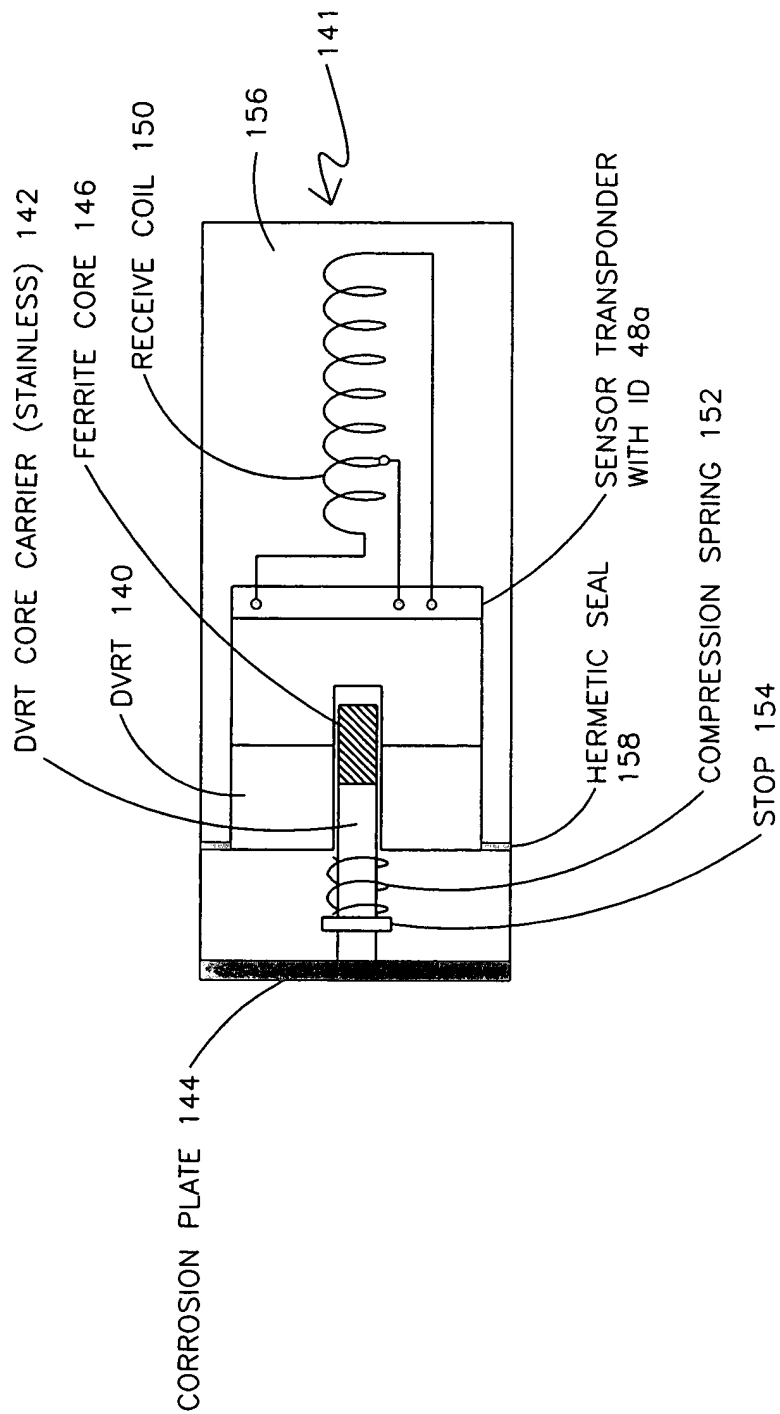


FIG. 17a

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

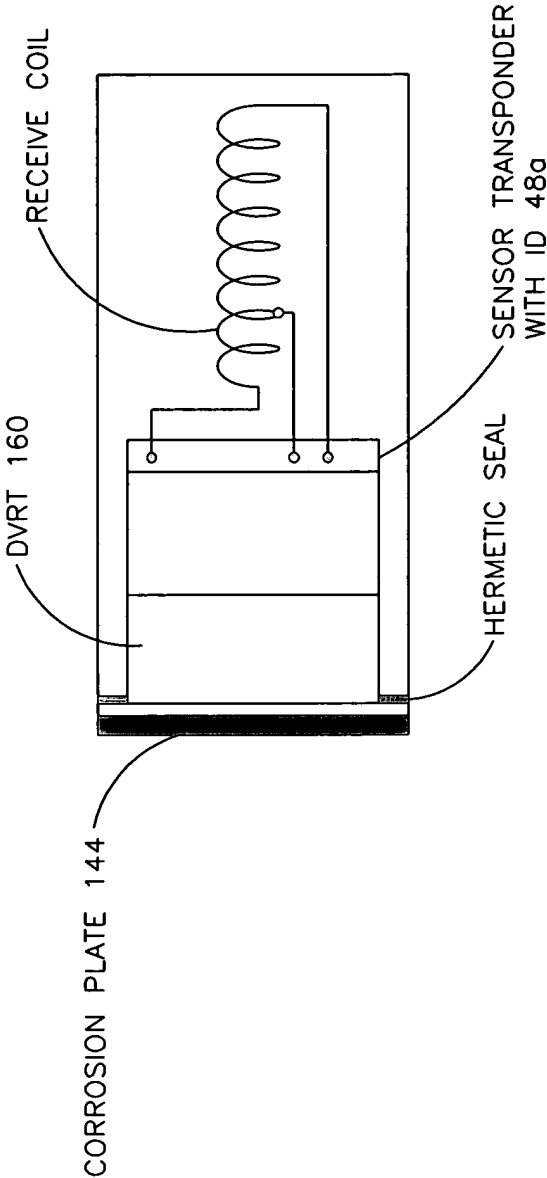


FIG. 17b

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

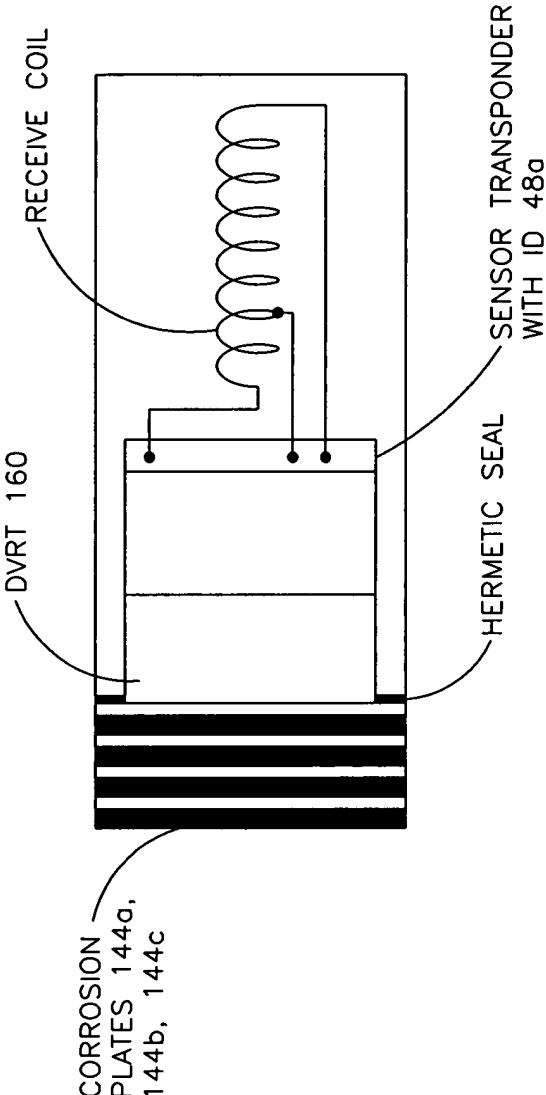


FIG. 17c

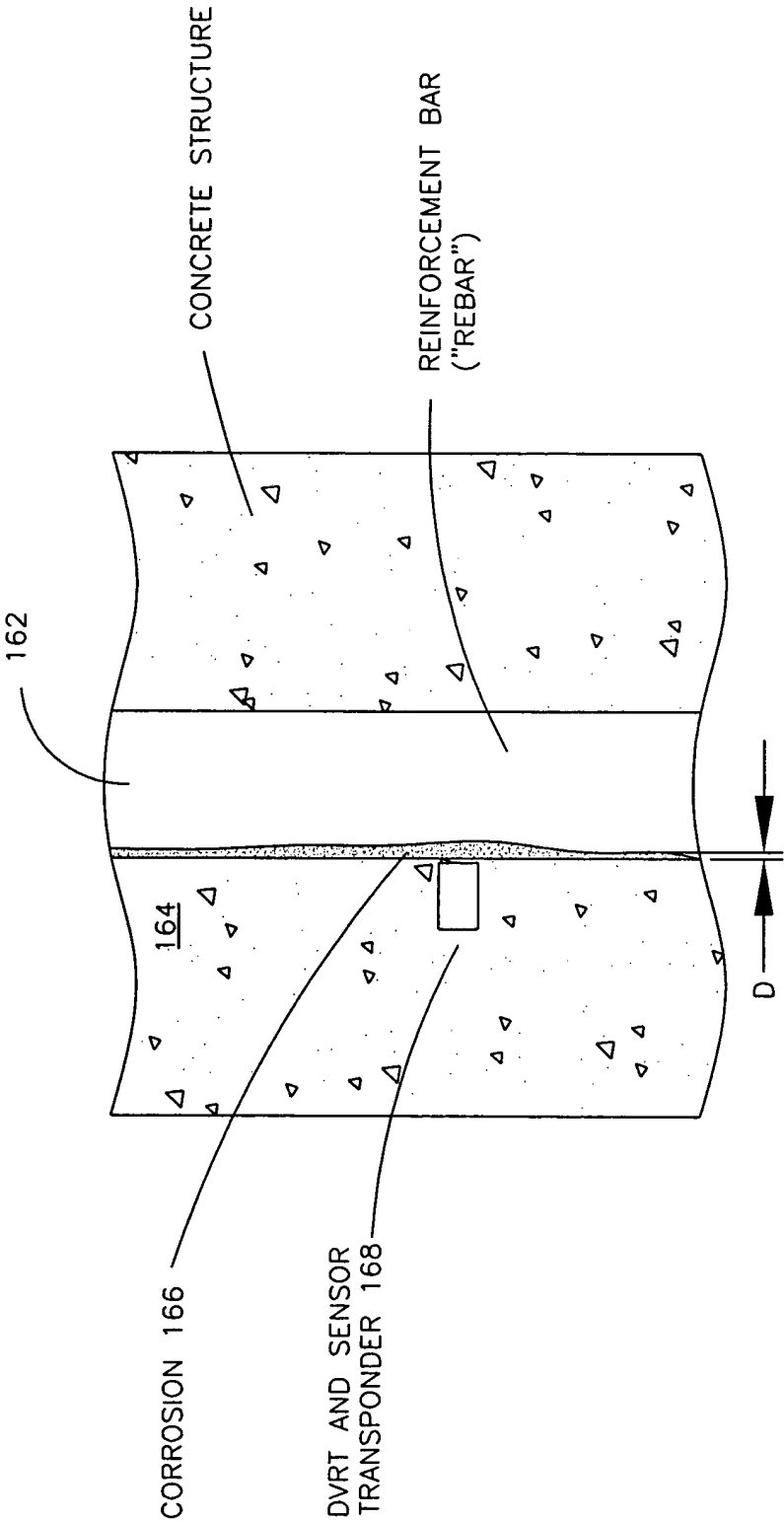


FIG. 17d

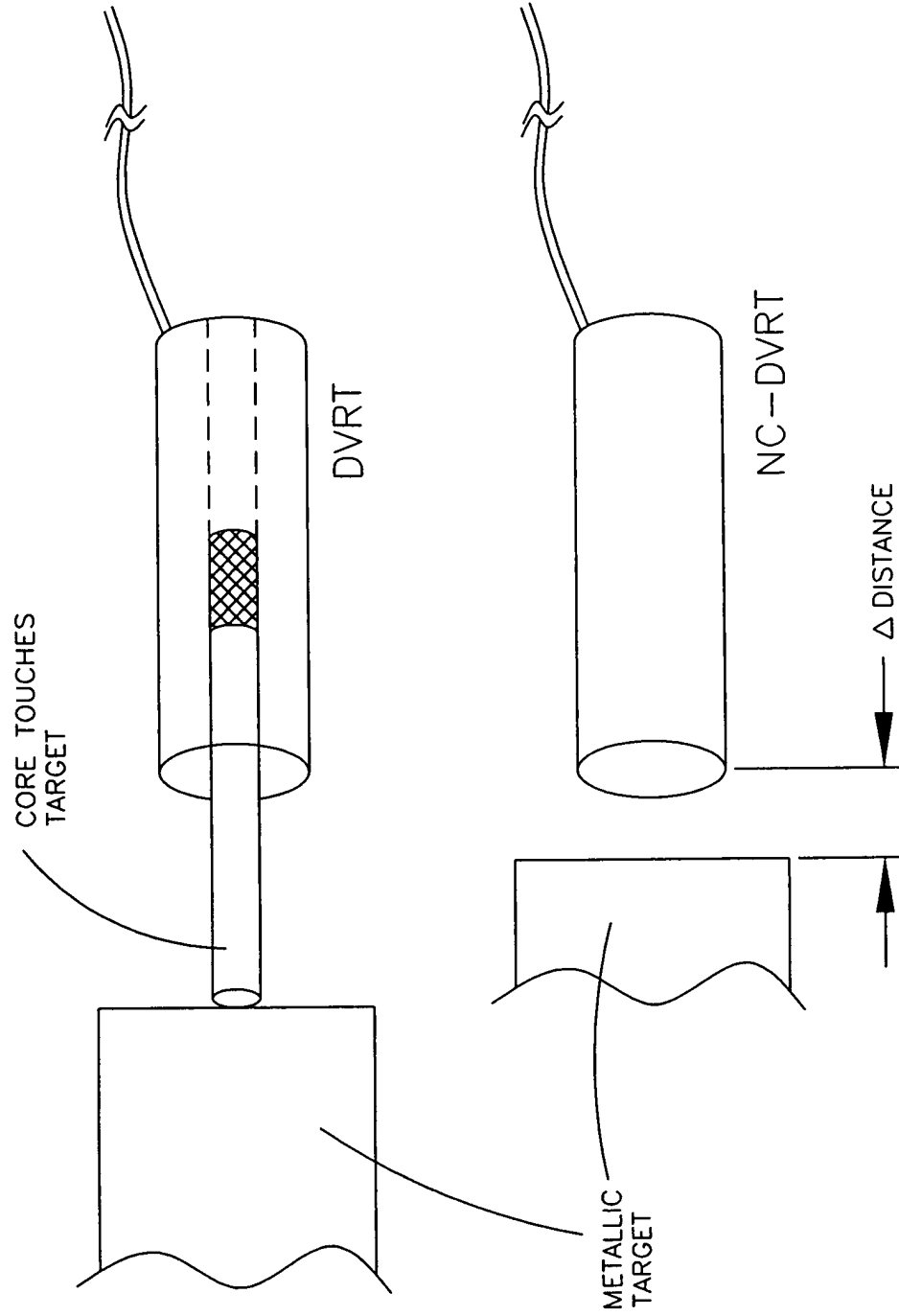


FIG. 17e

REMOTELY POWERED AND INTERROGATED
DVRT FOR FORCE OR PRESSURE
MEASUREMENT

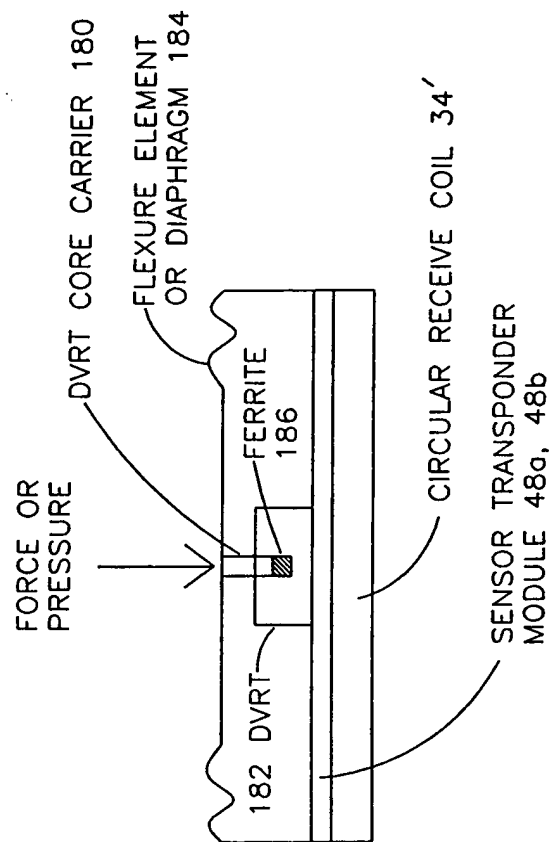


FIG. 18

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REMOTELY POWERED AND INTERROGATED DVRT
FOR FORCE OR PRESSURE MEASUREMENT

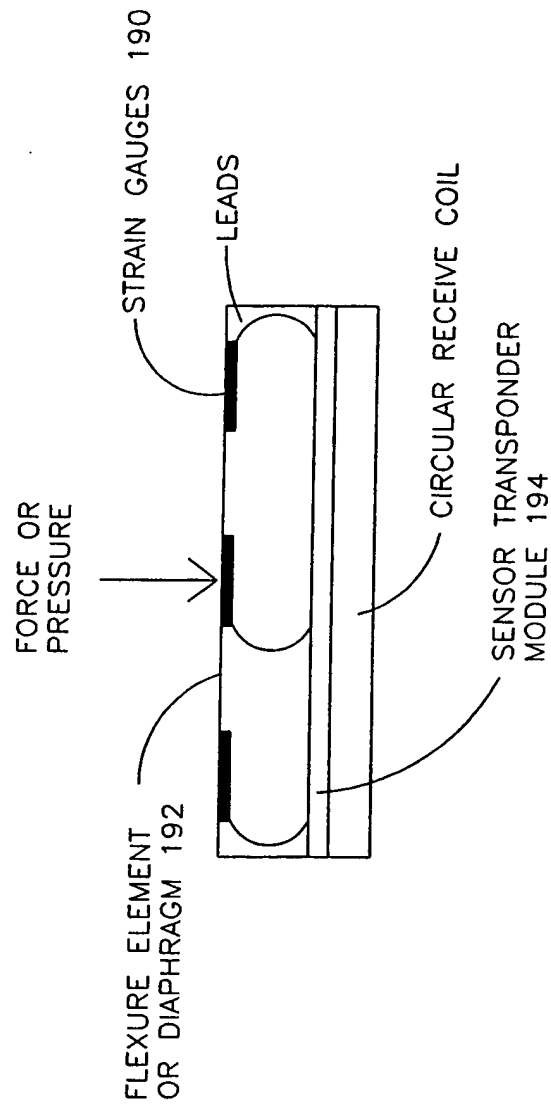


FIG. 19